SEMESTER EXAMINATION DECEMBER 2025

Course Name: - B.Tech (CSE) Semester:- 7th

Paper Name: - Internet Of Things Paper Code:- TCS 075

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. Max Marks-70

समय– 3 घण्टे + 20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं सह लेखक परीक्षार्थियों के लिए। अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark. All questions are compulsory.**
- Section B- Answer any **5 out of 7** given questions. Each question carries **7 marks.**
- Section C- Answer any **2 out of 3** given questions. Each question carries **10 marks.**

Section – A (खण्ड–अ)

Multiple Choice Questions (बहुविकल्पीय प्रश्न)

1. Answer all the following questions. 5×3=15
निम्नलिखित सभी प्रश्न अनिवार्य हैं।

1) What is IoT?

(a) network of physical objects embedded with sensors (b) network of virtual objects
(c) network of objects in the ring structure (d) network of sensors

2) Which layer is used for wireless connection in IoT devices?

(a) Application layer (b) Network layer
(c) Data link layer (d) Transport layer

3) Which of the following is used to capture data from the physical world in IoT devices?

(a) Sensors (b) Actuators
(c) Microprocessors (d) Microcontrollers

4) IoT gateway must provide _____
(a) Protocol abstraction (b) Data storage
(c) Security with hardware (d) Simple and fast installation

5) What is the role of Cloud in smart grid architecture of IoT?
(a) Security (b) Collect data
(c) Manage data (d) Store data

Scanned with OKEN Scanner

Section – B (खण्ड–ब)

Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions.
निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर दें।

5×7=35

(i) What do you know about IoT? Explain advantages & disadvantages of IoT.

(ii) Describe different types of Sensors in IoT? Explain briefly.

(iii) Discuss about role of cloud in IoT. Explain also about IoT application.

(iv) What are the Security aspects of IoT ? Explain Briefly.

(v) What is meant by Raspberry Pi? How to run Raspberry Pi in headless mode?

(vi) Explain about Protocols in IoT.

(vii) Describe role of Gateway in IoT. What is M2M technology

Section – C (खण्ड–स)

Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following questions.
निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दें।

2×10=20

(i) Discuss about IoT Conceptual framework & Architectural framework.

(ii) What are the different layers in IoT Architecture? Explain briefly

(iii) Explain the healthcare & agriculture system in IoT.

****

Scanned with OKEN Scanner